

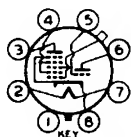


6J8-G



TRIODE-HEPTODE CONVERTER

Heater	Coated Unipotential Cathode
Voltage	6.3 a-c or d-c volts
Current	0.3 amp.
Direct Interelectrode Capacitances:	
Heptode Grid #1 to Heptode Plate	0.01 max. μmf
Heptode Grid #1 to Triode Plate	0.015 max. μmf
Heptode Grid #1 to Triode Grid & Heptode Grid #3	0.13 μmf
Triode Grid to Triode Plate	2.2 μmf
Heptode Grid #1 to All Other Electrodes (R-F Input)	4.4 μmf
Triode Plate to All Other Electrodes (Osc. Output)	5.5 μmf
Triode Grid & Heptode Grid #3 to All Other Electrodes (Osc. Input)	11.7 μmf
Heptode Plate to All Other Electrodes (Mixer Output)	8.8 μmf
Overall Length	4-7/32" to 4-15/32"
Seated Height	3-21/32" to 3-29/32"
Maximum Diameter	1-9/16"
Bulb	ST-12
Cap	Skirted Miniature
Base	Small Shell Octal 8-Pin
Pin 1 - No Connection	Pin 5 - Triode Grid & Heptode Grid #3
Pin 2 - Heater	Pin 6 - Triode Plate
Pin 3 - Heptode Plate	Pin 7 - Heater
Pin 4 - Heptode Grids #2 & #4	Pin 8 - Cathode



Mounting Position BOTTOM VIEW (G-8H) Any

CONVERTER SERVICE

Heptode Plate Voltage	250 max.	volts
Heptode Screen (Grids #2 & #4) Voltage	100 max.	volts
Triode Plate Supply Voltage*	250 max.	volts
Typical Operation and Characteristics:		
Heptode Plate Voltage	100	250 volts
Heptode Screen Voltage	100	100 volts
Heptode Control-Grid Voltage (Grid #1)	-3	-3 volts
Triode Plate Voltage	100	- volts
Triode Plate Supply Voltage*	-	250 volts
Triode Grid Resistor	50000	50000 ohms
Heptode Plate Resistance	0.9	4.0 approx. megohms
Conversion Transconductance	250	290 μmhos
Heptode Control-Grid Bias for Conversion Transcond. of 2 μmhos	-	-20 volts
Heptode Plate Current	1.4	1.3 ma.
Heptode Screen Current	3.0	2.9 ma.
Triode Plate Current	3.0	5.0 ma.
Triode Grid & Heptode Grid #3 Current	0.3	0.4 ma.

NOTE: The transconductance of the triode unit (not oscillating) is approximately 1600 μmhos under the following conditions: triode plate volts, 150; triode grid volts, -3.

■ In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.

● With shield-can connected to cathode.

* Applied through 20000-ohm dropping resistor.

July 1, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

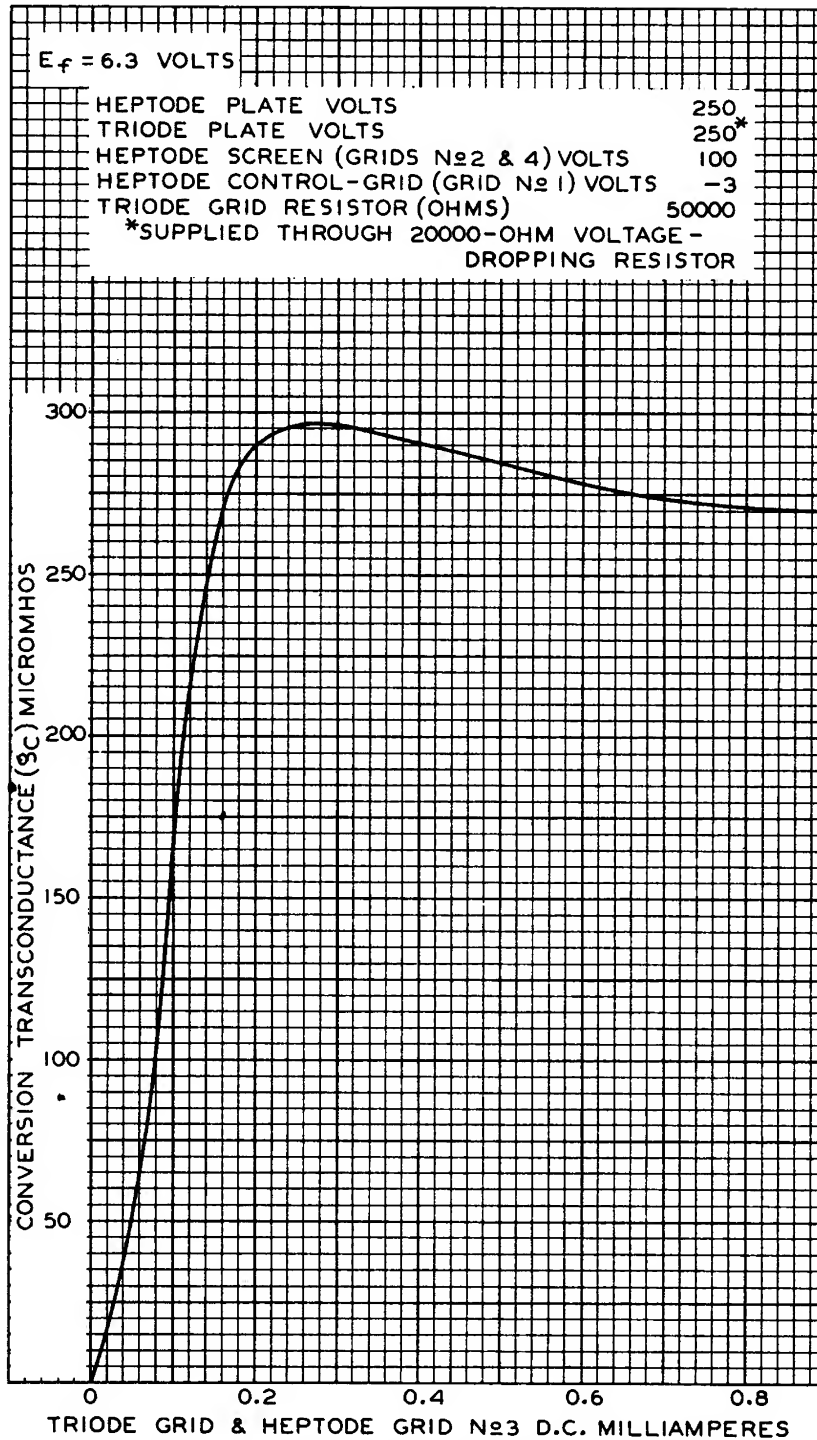
TENTATIVE DATA

6J8-G



6J8-G

OPERATION CHARACTERISTIC



MAY 13, 1941

RCA RADIONRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6285